

External Assessment 2021

PHYSICAL SCIENCES

PSC315118

Part **1**

Pages	16
Questions	5
Information Sheet	1

Reading time: 15 minutes – you may begin writing during this time

Suggested working time: 36 minutes

Instructions

- Attempt **all** questions and **all** parts within each question.
- Write your answers in the spaces provided in this exam paper.
 - Show working in answers to numerical questions and use appropriate units. Marks may not be given to answers without working.
 - Spare diagrams have been provided at the end of the exam booklet. Indicate in the box provided if you have used the spare diagrams.
- When asked to “show that”:
 - Calculate answers to the correct number of significant figures. Use this value to answer the remaining part(s) of the question.
 - If unsure, use the value given by the examiner.
- A TASC approved scientific calculator is allowed throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address:
 - Criterion 4 apply concepts and processes of atomic properties and nuclear reactions.

Marker use

C4

32

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	5	5	36 minutes	32
Part 2	5	5	36 minutes	32
Part 3	5	5	36 minutes	32
Part 4	5	5	36 minutes	32
Part 5	5	5	36 minutes	32
Total	25	25	180 minutes (3 hours)	160

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Part **2**

Pages	16
Questions	5
Information Sheet	1

Suggested working time: 36 minutes

Instructions

- Attempt **all** questions and **all** parts within each question.
- Write your answers in the spaces provided in this exam paper.
 - Show working in answers to numerical questions and use appropriate units. Marks may not be given to answers without working.
 - Spare diagrams have been provided at the end of the exam booklet. Indicate in the box provided if you have used the spare diagrams.
- When asked to “show that”:
 - Calculate answers to the correct number of significant figures. Use this value to answer the remaining part(s) of the question.
 - If unsure, use the value given by the examiner.
- A TASC approved scientific calculator is allowed throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address:
 - Criterion 5 apply concepts and processes of motion and force.

Marker use	
C5	32

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	5	5	36 minutes	32
Part 2	5	5	36 minutes	32
Part 3	5	5	36 minutes	32
Part 4	5	5	36 minutes	32
Part 5	5	5	36 minutes	32
Total	25	25	180 minutes (3 hours)	160

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Part **3**

Pages	12
Questions	5
Information Sheet	1

Suggested working time: 36 minutes

Instructions

- Attempt **all** questions and **all** parts within each question.
- Write your answers in the spaces provided in this exam paper.
 - Show working in answers to numerical questions and use appropriate units. Marks may not be given to answers without working.
 - Spare diagrams have been provided at the end of the exam booklet. Indicate in the box provided if you have used the spare diagrams.
- When asked to “show that”:
 - Calculate answers to the correct number of significant figures. Use this value to answer the remaining part(s) of the question.
 - If unsure, use the value given by the examiner.
- A TASC approved scientific calculator is allowed throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address:
 - Criterion 6 apply concepts and processes of conservation in physics.

Marker use

C6

32

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	5	5	36 minutes	32
Part 2	5	5	36 minutes	32
Part 3	5	5	36 minutes	32
Part 4	5	5	36 minutes	32
Part 5	5	5	36 minutes	32
Total	25	25	180 minutes (3 hours)	160

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Part **4**

Pages	16
Questions	5
Information Sheet	1

Suggested working time: 36 minutes

Instructions

- Attempt **all** questions and **all** parts within each question.
- Write your answers in the spaces provided in this exam paper.
 - Show working in answers to numerical questions and use appropriate units. Marks may not be given to answers without working.
 - Spare diagrams have been provided at the end of the exam booklet. Indicate in the box provided if you have used the spare diagrams.
- When asked to “show that”:
 - Calculate answers to the correct number of significant figures. Use this value to answer the remaining part(s) of the question.
 - If unsure, use the value given by the examiner.
- A TASC approved scientific calculator is allowed throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address:
 - Criterion 7 apply concepts and processes of chemical structures and properties.

Marker use	
C7	32

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	5	5	36 minutes	32
Part 2	5	5	36 minutes	32
Part 3	5	5	36 minutes	32
Part 4	5	5	36 minutes	32
Part 5	5	5	36 minutes	32
Total	25	25	180 minutes (3 hours)	160

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Part **5**

Pages	12
Questions	5
Information Sheet	1

Suggested working time: 36 minutes

Instructions

- Attempt **all** questions and **all** parts within each question.
- Write your answers in the spaces provided in this exam paper.
 - Show working in answers to numerical questions and use appropriate units. Marks may not be given to answers without working.
 - Spare diagrams have been provided at the end of the exam booklet. Indicate in the box provided if you have used the spare diagrams.
- When asked to 'show that':
 - Calculate answers to the correct number of significant figures. Use this value to answer the remaining part(s) of the question.
 - If unsure, use the value given by the examiner.
- A TASC approved scientific calculator is allowed throughout the exam.
- All answers must be written in **English**.
- You **must** make sure your answers address:
 - Criterion 8 apply concepts and processes of chemical reactions and reacting quantities.

Marker use	
C8	32

Guide to Exam Structure

	Questions available	How many questions to answer	Suggested working time	Marks available
Part 1	5	5	36 minutes	32
Part 2	5	5	36 minutes	32
Part 3	5	5	36 minutes	32
Part 4	5	5	36 minutes	32
Part 5	5	5	36 minutes	32
Total	25	25	180 minutes (3 hours)	160